

# Giorik Gas Combination Ovens

Series: SETG & SEHG Installation Manual





## GAS COMBI OVEN INSTALLATION MANUAL

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### DEAR CUSTOMER

Congratulations on the purchase of your new Combination Oven. By purchasing this new oven, you have entered into a new era of cooking. With the new technology and simplicity built into the Giorik Combination Oven, you will receive excellent results in no time at all. The oven's ease and simplicity of operation will help you realize savings in training dollars.

With the Giorik one touch, simply identify the relevant food, push start, and you are cooking. The simplicity of operation guarantees consistently produced products without having to set times, temperatures, and finishes.

For the Chef, the Combination oven offers a wide array of functions and steps that once tested can be saved and recreated by experienced kitchen staff as well as the first time operator.

#### **NOTICE**

Please read the operations manual in full before starting up the appliance to make sure all the benefits and safety information is understood.

For more information, culinary support, and customer service please contact 1-864-315-1615

Appliance Model \_\_\_\_\_

S/N \_\_\_\_\_

Dealer \_\_\_\_\_

Installer \_\_\_\_\_

Date of Install \_\_\_\_\_

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### INTRODUCTION/SAFETY INFORMATION

#### Intended Use

Giorik Combination Ovens are solely intended for use in commercial kitchens.

The units may only be used for cooking food using the correct racks, containers, baking sheets, and slide in pans. Roll in rack dollies and cassettes must only be supplied by Giorik.

Units should only be used with purest quality drinking water for unit protection. The owner of the oven should test water for filtration needs. Water quality needs can be found in the manual under "Water Quality."

Your new Combination oven should not be used for the following purposes, among others:

- As a dishwasher
- Drying towels, paper, or dishes
- As a storage container
- Heating brines, oils, or other chemicals
- Heating closed containers (i.e. canned goods)
- Heating flammable liquids
- Deep frying
- Cleaning air filters or equipment parts



#### Safety Precautions

Always follow recommended safety precautions listed in this manual. To the left is the safety alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury or property damage.

#### Safety Signs and Messages

The following safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages.

#### **DANGER**

This message indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

#### **WARNING**

This message indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

#### **CAUTION**

This message indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

#### **NOTICE**

This message is used when special information, instructions or identification are required relating to procedures, equipment, tools, capacities and other special data.

#### **WARNING**

California Residents Only

**WARNING:** This product can expose you to chemicals including chromium which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SAFETY INFORMATION—SAFE WORK PRACTICES

#### Beware of High Voltage

This equipment uses high voltage. Serious injury can occur if you or any untrained or unauthorized person installs, services, or repairs this equipment. ALWAYS use an AUTHORIZED SERVICE AGENT to service your equipment.



#### Beware of Hot Surfaces—DO NOT Touch

The door on this unit reaches temperatures that can cause burns. Use caution when opening and closing the door. Do not touch any of the surfaces when the unit is heated.



#### Protect Children

Keep children away from this equipment. Children may not understand that this equipment is dangerous for them and others.



**NEVER** allow children to play near or operate your equipment.

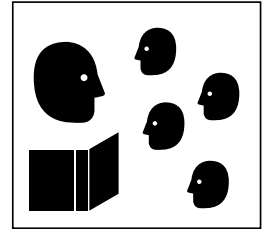
#### Be Prepared for Emergencies

Be prepared for fires, injuries, or other emergencies. Keep a first aid kit and a fire extinguisher near the equipment. You must use a 40-pound type BC fire extinguisher and keep it within 25 feet of your equipment. Keep emergency numbers for doctors, ambulance services, hospitals, and the fire department near your telephone.



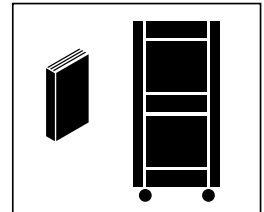
#### Know Your Responsibilities as an Employer

- Make certain your employees know how to operate the equipment.
- Make certain your employees are aware of the safety precautions on the equipment and in this manual.
- Make certain that you have thoroughly trained your employees about operating the equipment safely.
- Make certain the equipment is in proper working condition. If you make unauthorized modifications to the equipment, you will reduce the function and safety of the equipment as well as void the warranty.



#### Keep this Manual With the Equipment

This manual is an important part of your equipment. Always keep it nearby for easy access.



If you need to replace this manual, contact:

#### Giorik US

Technical Services  
128 Millport Circle, Suite 200  
Greenville, SC 29607

Or call toll free: 1-864-315-1615

Or visit [www.giorikus.com](http://www.giorikus.com)

### SAFETY INFORMATION—SPECIFIC PRECAUTIONS

#### **⚠ CAUTION**

##### **Equipotential Ground Plane**

When a high current flows through a conductor, differences in potential appear between the conductor and nearby metallic surfaces near the appliance. As a result, sparks may be produced between the appliance and surrounding metal surfaces. These sparks could cause serious injury, damage, or fire.

Giorik provides an Equipotential ground terminal for the connection of a bonding conductor after the installation of the appliance per IEC60417-1. This terminal is located on the inside of the Power Entry Supply box near the Earth connection and is marked with this symbol



#### **⚠ WARNING**

Disconnect power before servicing.

#### **⚠ WARNING**

Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

#### **⚠ WARNING**

DO NOT connect Combi oven drain connection to any drain material that cannot sustain 175° F.

#### **NOTICE**

##### **For Your Safety**

DO NOT store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

#### **NOTICE**

##### **For Your Safety**

All service must be performed by a qualified Giorik authorized technician.

#### **NOTICE**

##### **For Your Safety**

This manual is a part of your new Combination oven. You must keep and maintain it for the entire life span of your Combination oven and pass it on to the next owner of the unit.

Retain this manual for reference, keep it where you can use it.

This manual may be subject to new technical developments, modifications, and unforeseen errors.

DO NOT operate or attempt to operate this appliance or any accessories without reading completely and fully understanding this manual.

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### SAFETY INFORMATION

#### General Safety Guidelines for Installers, Users, and Service Technicians

- Read, understand, and follow the instructions, and heed and obey the warnings of the Installation Manual, the Operator's Manual, and the labels on the Combi oven, accessories, and supporting products.
- Improper installation, maintenance, cleaning, or modifications to the Combi oven can lead to injury or death of the operator(s), and equipment and property damage.
- **Steam** – To avoid steam burns, open the Combi door by turning the handle to the left or clockwise ("airing") position and waiting for the steam and condensate to clear. Then, turn to the right or counterclockwise and slowly open the door. Never breathe steam, superheated steam, or hot air.  
**NOTE:** The cooking program is interrupted whenever the door is opened.
- **Heat** – The Combi, cooking containers, shelves, and inner door and anything else inside the cooking compartment are HOT, as are many of the component parts. Wear DRY heatproof gloves or mitts.
- **Exhaust Vents** – The top of the Combi, and the gas and steam exhaust vents are very hot during operation and remain hot for some time. Never breathe gas or steam from the exhaust vents.  
**Use extreme caution when working on or near this area and component parts.**
- **Scalds** – DO NOT place containers with liquid contents or contents that become liquid on oven racks higher than you can see. You must be able to see into the container. Cover containers (individual or on trolleys) containing hot or hot liquid items to help prevent spills during transport. Observe and heed, and obey the additional warning labels posted on the Combi.
- **Grease Spatter** – Hot grease will spatter and cause burns if sprayed with water. Locate fryers and similar appliances outside the range of the Combi hand shower.
- **Electric Shock** – Use the hand shower only on the inside of the oven. Use of the hand shower, hoses, power cleaners, or pressure washers on the outside of the Combi can cause electric shock and/or damage to electrical and electronic components.
- **Cleaning and Daily Maintenance** – Wait for the Combi to cool before cleaning and performing daily maintenance. **DO NOT** spray water in a hot cooking compartment. Do not use hoses, power cleaners, pressure washers, or harsh or abrasive cleaning agents inside OR outside the cooking compartment.
- **Cleaning Agents** – Use only Giorik approved cleaning and descaling products. Follow the instructions and heed and obey the warnings on the labels. Other products can damage the Combi, cause injury, or present health hazards.
- Wear appropriate shoes/boots to the work area to help protect feet and to help prevent slips and falls.
- Use non-slip, draining, anti-fatigue FLOOR MATS (not included) rated for use in wet, greasy, and dry work areas to help prevent slipping and / or falling injuries. Obtain the best mats for your needs from your local supplier.

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### HEALTH AND SANITATION PRACTICES

Giorik Combi Ovens are manufactured to comply with health regulations and are tested and certified to UL®, cUL®, and NSF® standards. You must operate the equipment properly using only quality products and use meat thermometers to insure meats are thoroughly cooked.

#### Food Handling

- Wash hands thoroughly in warm, soapy water after handling raw poultry or meats.
- Clean and sanitize all utensils and surfaces that have been in contact with raw products. Clean and sanitize the meat forks or baskets between cooking.
- Never place cooked meats on the same surfaces used to prepare raw meats, unless the area has been thoroughly cleaned and sanitized.

#### Storage of Raw Meats

- Designate an area or shelf strictly for the storage of all raw meats to be used in the oven.
- Raw product must always be stored at temperatures below 38° F. (3° C.).
- Never store or mix raw foods above cooked foods, as **this is a health hazard**. The drippings from raw foods contaminate cooked or processed foods.
- All chicken and chicken parts to be stored overnight must be thoroughly iced down and refrigerated.

#### Coding Cooked Foods

- All products cooked during the day should be sold the same day.

**NOTE:** Follow your company's procedures for the handling of any leftover product.

#### Storage of Prepared Foods

- Cold foods should be kept at or below 38° F. (3° C.).
- Hot foods must be maintained to meet local health codes, usually a minimum 145° F (63°).



## GAS COMBI OVEN INSTALLATION MANUAL

### PRE-INSTALLATION CHECKLIST

The following points are a listing of requirements that should be verified prior to the installation of the Combi Oven. For more specific installation requirements, refer to instruction manual that comes with the oven.

- 1. Verify ventilation requirements. Will the installation use an existing hood or ventless hood?
- 2. Verify ventilation height requirements. What is the clearance under the hood?
- 3. If a ventilation hood is installed above the oven, it should project 19.69" (500 mm) over the front of the oven. The suction effect should be 400 to 800 m<sup>3</sup>/h (523 to 1046 yd<sup>3</sup>/h).
- 4. Verify the drain is accessible and will not be located directly under the oven.
- 5. Verify the drain for the oven is made of stainless steel or an equally temperature-resistant material, minimum 175° F.
- 6. Verify the drain for the oven is at least 1.97" (50 mm) in diameter and a fall of at least 3° or 5%.
- 7. Verify correct power supply (1 Phase, 3 wire, 120V, Amperage) is available and within 10 feet of oven location. Power cord exits oven on right hand side (facing the unit).
- 8. Verify proper Electrical Supply Voltage, Amperage, and Phase. Typical requirements are 120VAC, 3 Phase, 60 Hz with 3 wires (2 legs with a ground).

**NOTE:** There is no NEUTRAL.

- 9. Verify gas supply pressure and volume capacity.
- 10. Verify the installation area for the oven will have minimum clearances of 3" (75 mm) from the rear wall, 0" from any objects on the right side of the oven and 0" for clearance on the left side of the oven while in operation. The left side requires 20" (508 mm) clearance for servicing (page 23).

**NOTE:** High heat source equipment should not be located to the left of the oven.

- 11. Verify cold water supply to the oven will be between 40-60 PSI (flowing).
- 12. Verify the water concentrations:  
 \_\_\_ Hardness (GPG of CaCO<sub>3</sub>), \_\_\_ Iron, \_\_\_ pH, \_\_\_ TDS, \_\_\_ Chlorine, \_\_\_ Chloride.

**NOTE:** If water hardness exceeds the allowable limit noted, an approved water treatment system capable of removing Chlorine and Chloramines should be installed in the water supply line to the oven. Installing a water treatment system will extend the life the oven and minimize the potential for future corrosion.

Potential Install Location: \_\_\_\_\_ Store Number: \_\_\_\_\_

Customer Name: \_\_\_\_\_ Customer Title: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Date: \_\_\_\_\_

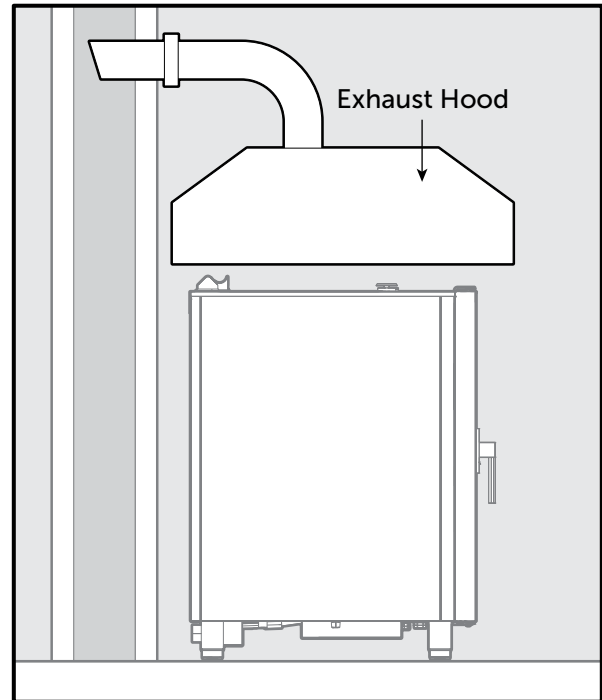
### VENTILATION REQUIREMENTS

Gas combi ovens must be located under an exhaust hood. Information on the construction and installation of ventilating hoods may be obtained from Vapor Removal from Cooking Equipment, NFPA Standard No. 96 (latest edition).

- Kitchen ventilation must include a provision for an adequate flow of fresh air for gas combustion and to prevent a negative-pressure condition. The bottom of the oven provides air supply access for gas combustion and must be kept clear at all times. **DO NOT** obstruct or restrict ventilation nor the air flow required to support combustion.
- **DO NOT** obstruct the flow of the exhaust flue at the top rear of the oven. It is especially critical that gas supply piping and electrical support cord and/or receptacle be routed away from the path of the hot combustion fumes.

**NOTE:** all hood and ducting of ovens must comply to local codes interpreted by fire and building inspectors in the municipality where the oven is installed.

Ventilation hoods must ensure an adequate amount of incoming air during operation and must be operated whenever the Combination oven/steamer is used in order to avoid the accumulation of condensation in the hood area.



#### **⚠ DANGER**

**FAILURE TO VENT THIS APPLIANCE PROPERLY MAY BE HAZARDOUS TO THE HEALTH OF THE OPERATOR.** Equipment damage, operational problems, and unsatisfactory baking performance may also be the consequence of improper venting. Any damages sustained by a failure to properly vent this oven are not covered under warranty.

### WATER QUALITY

As with all steam related products, water filtration and regular filter replacements may be necessary with the Combi. It is strongly recommended to have a water analysis performed prior to installing the Combi. Poor water quality can have a big impact on cook quality, performance, and longevity of the Combi. Varying combinations of pH; alkalinity; hardness; chlorides; total dissolved solids; and other chemical characteristics, when subjected to high temperatures, will cause water to have a tendency to either scale or corrode.

There are a number of different water filter/treatment systems available and each has its own benefits and specialties. Below are a different styles and their benefits. Multiple styles may need to be used to get the water to proper levels.

- **Particle Filter**

When the water contains sand, iron particles, or suspended matter, we recommend a 5-15 µm (micrometer) particle filter.

- **Active Carbon Filter**

When the level of chlorine (Cl) in the water exceeds 0.5 mg/L (ppm) (information available from the water company), an active carbon filter should be installed.

- **Phosphate Additive System**

A Phosphate Additive (Feeder) System is recommended for steam generator units only when a moderate level of scale (not containing chloride) is experienced. The system recommended is Kleensteam from Everpure.

- **Ion Exchange System**

An ion exchange system is recommended for a steam generator based unit when a high level of scale (not containing chloride) is experienced and for a spritzer based unit when any scale (not containing chloride) is experienced. Systems recommended: Claris from Everpure (H+ Ion Exchanger). Sodium ion exchangers (as used in dishwashers) must not be used.

- **Blended Reverse Osmosis (RO)**

When the water has a chloride (Cl) concentration above 20 mg/L (= 20 ppm), a blended RO system should be installed to avoid corrosion.

**NOTE:** Make sure a minimum conductivity of 20 µS/cm (microSiemens) remains in the water for steam generator units.

Water quality must conform to the below requirements. If water does not meet the minimum quality and damage to the oven is determined to be due to water quality, it will be considered non-warranty and will not be covered under the stated warranty policy.

#### Minimum Water Quality Requirements

- Hardness (CaCO<sub>3</sub>) = 30 to 90 mg/L (Milligrams per Liter)
- TDS (Total Dissolved Solids) = 40 to 150 mg/L (Milligrams per Liter)
- Free Chlorine = Less than 0.1 mg/L (Milligrams per Liter)
- Chlorides = Less than 20 mg/L (Milligrams per Liter)
- Chloramines = Less than 0.5 mg/L (Milligrams per Liter)
- Sulfates & Nitrates = Less than 20 mg/L (Milligrams per Liter)
- Total Silica = Less than 10 mg/L (Milligrams per Liter)
- Total Iron = Less than 0.1 mg/L (Milligrams per Liter)
- pH level = 7.0 to 8.5
- Langelier Index = Greater than 0.5
- Conductivity (Boiler Models only) = Minimum of 20 µS/cm (microSiemens per cm)

#### Water Usage

Average Water Flow = 8.5 gal/hour at 36 psi inlet pressure for half size 6 grid oven; 9.8 gal/hour at 36 psi inlet pressure for half size 10 grid oven; 11.6 gal/hour at 36 psi inlet pressure for full size 10 grid oven; Peak Water consumption = 2.6 gal/min

### INSTALLATION

#### General Information

#### **⚠ WARNING**

Serious injury, equipment damage or death could result if attempting to install this Combi oven yourself. Ensure that an authorized Giorik service agent installs the Combi oven.

Only qualified, professional plumbers, pipe fitters, and electricians should install this equipment.

- The installation of this Combi must conform with:
  - The Basic Plumbing Code of the Building Officials and Code Administrators International, Inc. (BOCA).
  - The National Fuel Gas Code, ANSI Z223.1 / NFPA 54 (latest edition) or the Natural Gas and Propane Installation Code CSA B1 49.1 as applicable.
  - The National Electrical Code, ANSI/NFPA 70 (latest edition), or the Canadian Electrical Code, CSA C22.2 as applicable.
  - The Food Service Sanitation Manual of the Food and Drug Administration (FDA).
  - All applicable national, state, and local laws, codes, and regulations.

#### **⚠ WARNING**

Death, injury, and equipment damage can result from improper lifting. Use adequate workers with training and experience lifting heavy equipment to place the Combi oven on the supporting surface.

#### Unpacking and Handling

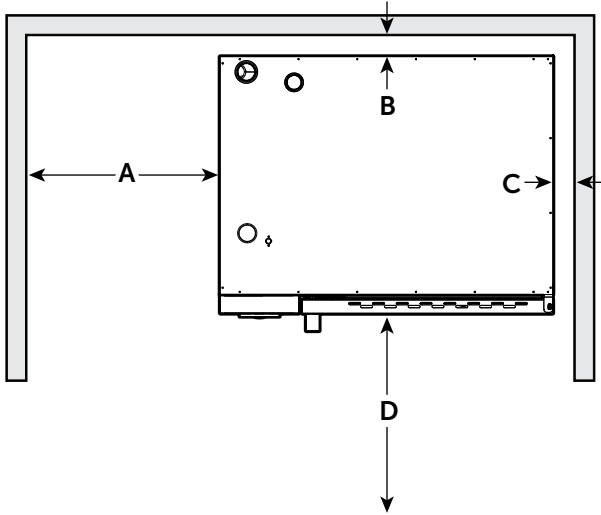
It is the owners' responsibility to file all freight claims with the delivering truck line. Inspect all cartons and crates for damage as soon as they arrive. If damage to cartons or crates is found, or if a shortage is found, note this on the bill of lading (all copies) prior to signing.

If damage is found when the equipment is opened, immediately call the delivering truck line and follow up the call with a written report indicating concealed damage to your shipment. Ask for an immediate inspection of your concealed damage item. Packaging material **MUST** be retained to show the inspector from the truck line.

Remove all packing from the interior and exterior of the oven.

### INSTALLATION—REQUIRED CLEARANCES/POSITIONING

#### Required Clearances



- A. Left Side – 0" and 20" (servicability)
- B. Rear – 3" (utilities)
- C. Right Side – 0"
- D. Front – Dependent on model door swing

–If next to a high heat source (i.e. fryer or broiler), ensure that there is adequate distance or a heat shield is installed.

–Allow for adequate clearance on left side for service.

#### Positioning

Follow the criteria below when selecting a location for your Combi oven:

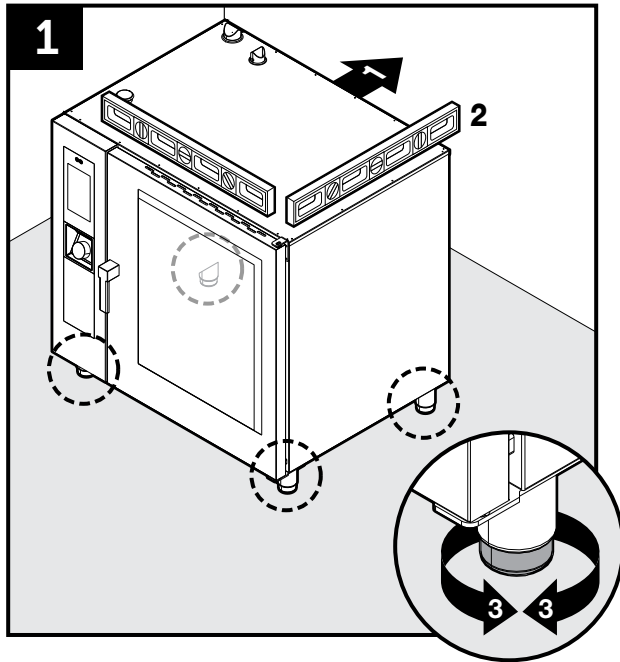
- Ensure the Combi oven will go through any doorways or passages (see Shipping Weights and Dimensions table below).
- If Combi oven is going on a counter top or stand not supplied by Giorik, ensure the supporting structure can hold the weight of the Combi oven fully loaded with food (see Shipping Weights and Dimensions table below).
- The floor/stand must be level to ensure proper door sealing and operation.
- The position of the Combi oven should be that the Combi oven will not slide or tip.
- The area around the Combi oven should be free from combustibles.
- The ambient temperature should be within 40° F to 95° F.
- Ensure the Combi oven air vents are not blocked.

**NOTE:** Do not install the Combi over a drain. Rising steam out of the drain can have adverse affects on operation, impede cooling air circulation, and damage electrical and electronic components.

### SHIPPING WEIGHTS & DIMENSIONS

Model	Weight Lbs (kg)	Width in (mm)	Depth in (mm)	Height in (mm)
061W	344 (157)	36.75 (934)	36 (915)	40.25 (1023)
062W	492 (224)	45.5 (1156)	38.5 (978)	40.25 (1023)
101W	413 (188)	36.75 (934)	36 (915)	51.25 (1302)
102W	514 (234)	45.5 (1156)	38.5 (978)	51.25 (1302)
201W	847 (385)	45.5 (1156)	41.75 (1061)	83 (2108)
202W	926 (421)	52 (1321)	44.5 (1131)	83 (2108)

### INSTALLATION-POSITIONING/DOOR ADJUSTMENT

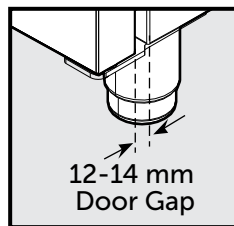


Move the Combi oven into final position. Level front to back and side to side by turning lower legs for proper operation.

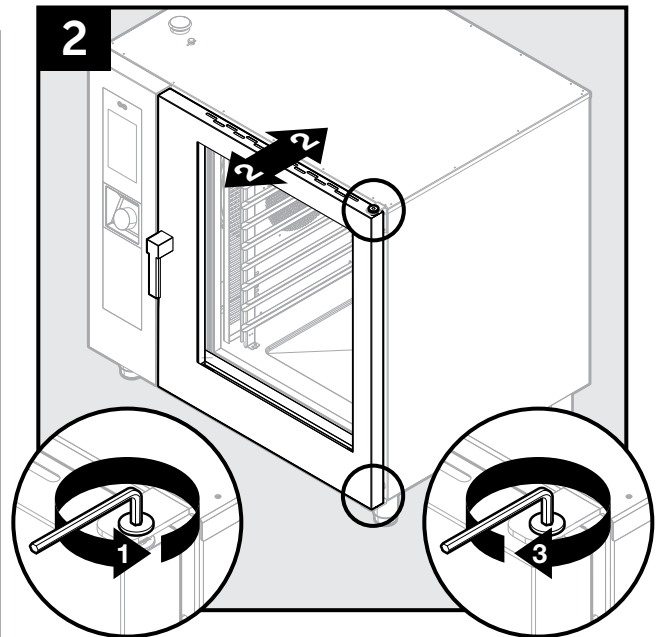
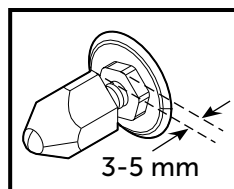
#### Door Adjustment

Once the oven has been correctly positioned in its designated place for installation, check the oven compartment door closing and seal of the gaskets.

The door hinges must be adjusted to assure maximum seal of the oven door during its operation. See dimensions on door gap.

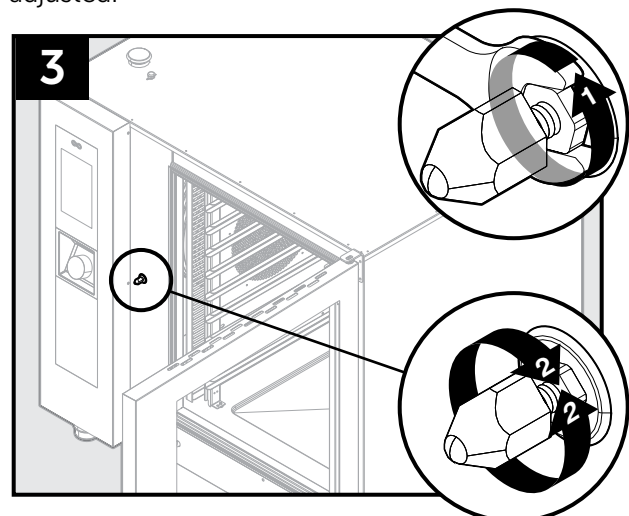


The door's catch can be adjusted in depth to eliminate any steam leaks during cooking.



To adjust the door seal, loosen the hinge bolts and move the door to desired position. Once adjusted, tighten the hinge bolts again. See dimensions on door gap.

**NOTE:** Both the upper and lower hinges should be adjusted.



To adjust pressure applied by the door on the gasket, open the oven door and locate the catch pin. Using a 1/2" wrench, loosen the nut on the back of the pin. Turn the pin clockwise to increase the pressure or turn the pin counterclockwise to decrease the pressure. Retighten the nut.

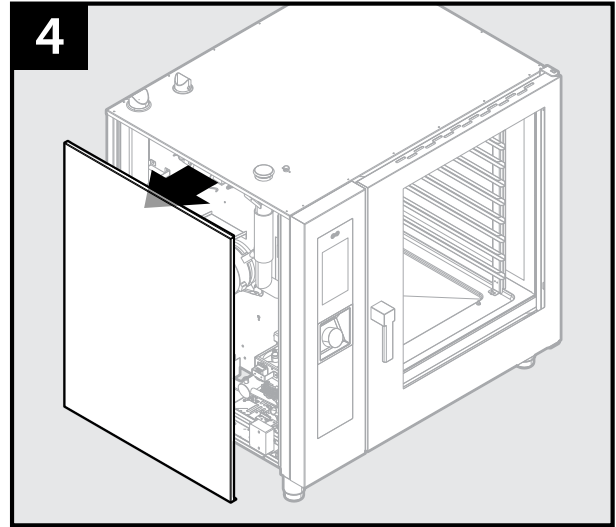
### INSTALLATION—ELECTRICAL CONNECTION

Check to make sure the electrical rating on the rating plate (located on the back of the Combi oven) matches the supplied electrical connection.

The Combi oven must be properly grounded and have the electrical power lines installed in accordance to all applicable codes, regulations, and laws.

A dedicated main disconnect switch and a separate fuse or breaker for each Combi oven should be installed.

The customer connection terminals are located behind the left side panel.



Remove the left side panel. Connect the wiring to the terminal as shown. For all other models, #8 electrical wires are required.

#### T ELECTRICAL OPTIONS

	Volts	Phase	Cycle/Hz	kW	Amps	Wires
SETG061W	120	1	60	0.4	3.5	2+Grnd
SETG062W	120	1	60	0.4	3.5	2+Grnd
SETG101W	120	1	60	0.7	6	2+Grnd
SETG102W	120	1	60	0.8	6.5	2+Grnd
SETG201W	120	1	60	1.0	8	2+Grnd
SETG202W	120	1	60	1.6	13	2+Grnd

#### H ELECTRICAL OPTIONS

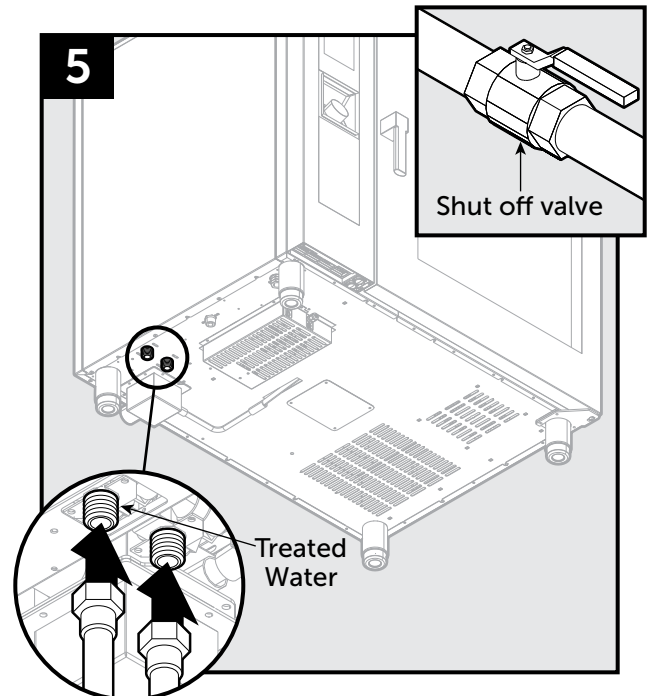
	Volts	Phase	Cycle/Hz	kW	Amps	Wires
SEHG061W	120	1	60	1.2	10	2+Grnd
SEHG062W	120	1	60	1.2	10	2+Grnd
SEHG101W	120	1	60	1.5	12.5	2+Grnd
SEHG102W	120	1	60	2.3	19	2+Grnd
SEHG201W	120	1	60	2.5	21	2+Grnd
SEHG202W	120	1	60	3.1	26	2+Grnd

### INSTALLATION—WATER CONNECTION

The Combi oven requires two 3/4" GHT (Garden Hose Thread) cold water connections. One is for treated water that feeds the spritzer and/or steam generator, and one for untreated water that feeds the hand shower, drain quench, and cleaning system. Both connections need to be connected to a cold water supply for proper operation of the Combi oven.

- If the water supply meets the minimum water quality requirements, then a single water supply configuration may be used. If a single water connection is used, a water distributor or tee should be sized appropriately to handle both water connections.
- The minimum water temperature for the correct functioning of the oven is 43° F. The maximum water temperature for the correct functioning of the oven is 80° F.
- Dynamic Pressure = minimum of 35 PSI. Should the incoming water pressure be lower than the minimum value, install a pump or adjust the pressure regulator upstream of the oven to achieve the required minimum pressure.
- Static Pressure = maximum 87 PSI. Should the incoming water pressure be higher than maximum value, install a pressure reducer upstream of the Combi oven.
- Install the water supply lines **before** positioning the Combi oven.
- Water supply lines should be located so that the Combi oven can be easily moved for servicing.
- Check that the check valve of the solenoid valve is clean.
- Backflow Prevention — The equipment must be installed with adequate backflow protection to comply with applicable federal, state, and local codes.

Before connecting, let sufficient amount of water flow to clean the pipes from any residues.



Connect the cold water supply lines to Combi oven water connection outlets. Make sure there is a shut off between the lines and the oven, placed in an area where it can be seen and reached in case of emergency.

### INSTALLATION—DRAIN CONNECTION

The Combi oven is supplied with a 50 mm (2") drain pipe out the back of the unit. The drain line is to be installed in compliance with the Basic Plumbing Code of the Building Officials and Code Administrators International, Inc. (BOCA) and the Food Service Sanitation Manual of the Food and Drug Administration (FDA) and any other applicable national, state, or local codes and regulations.

**Do Not** install the Combi oven directly over a drain. Steam rising up out of the drain will adversely affect operation, impede cooling air circulation, and damage electrical and electronic components.

#### NOTICE

Improper installation of drain outlet line voids the Combi oven warranty.

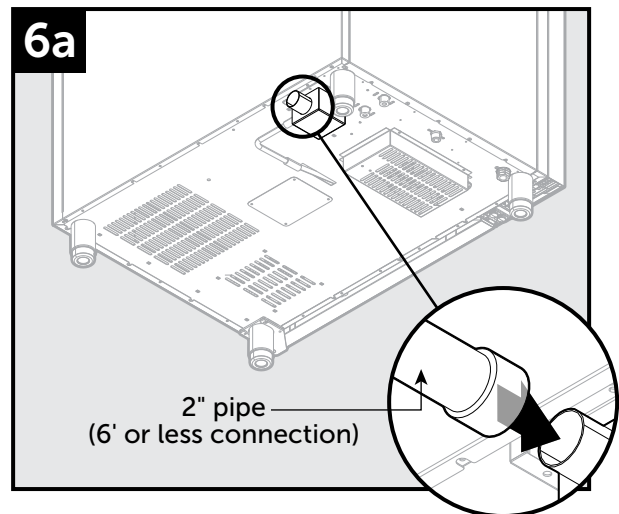
The following requirements are critical to the safety of personnel and equipment and must be adhered to under any circumstances.

- The drain for the Combi oven should be made of stainless steel or an equally temperature-resistant material (minimum 175° F).
- **Do Not** connect drains from any other equipment to the drain line of the Combi oven.
- **Do Not** connect the drain outlet extension line directly into a floor drain or a sewer line.
- The drain line must be free air vented, have gravity flow from the Combi oven, and terminate outside the perimeter of the Combi oven.

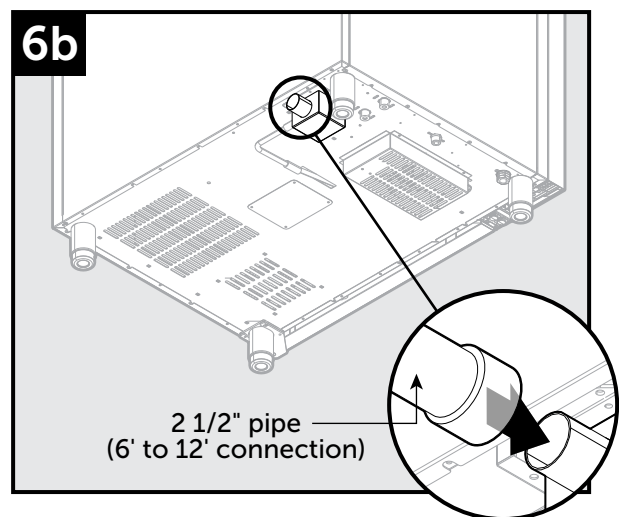
**Note:** Free air venting requires minimum 1" clearance between the end of the drain line and the top of the floor drain.

- The drain line must have gravity flow from the Combi drain outlet to floor drain.
- **Do Not** install a trap in the drain line.

The total length of pipe and number of bend fittings required to reach the open drain determines the pipe size used to extend the drain line to an open drain.



For drain pipe connections of 6 feet or less (requires no more than two elbows), connect 2" drain pipe to outlet extension on lower back of Combi oven. Use a hose clamp, as required, to secure the drain pipe to the oven drain.



For drain pipe connections of 6 to 12 feet (requires three elbows), connect 2 1/2" drain pipe to outlet extension on lower back of Combi oven.

### INSTALLATION—GAS CONNECTION

#### **⚠ DANGER**

Death, injury, and equipment damage can result from improper lifting. Use adequate workers with training and experience lifting heavy equipment to place the Combi oven on the supporting surface.

If the installer smells gas, or suspects there is gas leak, immediately refer to posted gas leak instructions. The posted instructions are provided by the local gas supplier and supersede any other instructions.

Observe the following precautions in addition to the posted instructions:

- **DO NOT** light or start any appliance.
- **DO NOT** touch any electrical switch.
- **DO NOT** use any phone in the building.
- Immediately call the gas supplier from a phone away from the building. Follow the gas supplier's instructions.
- If the gas supplier cannot be reached, call the fire department

#### **Gas Supply**

- Make sure gas supply type matches type of gas shown on the rating plate.
- Make sure that gas supply pressure does not exceed 14" water column (1/2 psi), and falls within acceptable gas pressure range shown below:

–Natural gas pressure must be between 5 1/2" – 7" water column

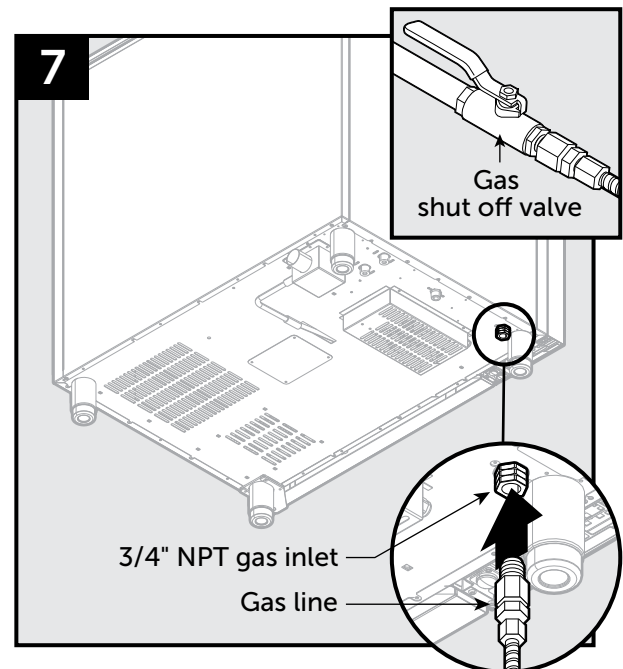
–Propane gas pressure must be between 11" – 14" water column

#### **Install Gas Supply Lines**

Installer/owner is responsible for furnishing and installing gas supply lines, valves, regulators, and accessories.

When installing gas supply lines and accessories, observe the following:

- The installation must conform with local codes, or in absence of local codes, with National Fuel Gas Code, ANSI Z223.1 / NFPA 54 (or latest edition), or Natural Gas and Propane Installation Code, CSA B1 49.1, and any other applicable national, state, or local codes and regulations.
- **GAS SUPPLY PRESSURE TO THE COMBI MUST NEVER EXCEED 14" WATER COLUMN (1/2 psi).** If the gas supply pressure exceeds 14" water column, a pressure regulator must be installed in gas supply plumbing to reduce pressure to the Combi.



Install the gas line on the 3/4" NPT gas inlet. It is located on the bottom right of the Combi.

- Install main manual shut off valve between gas supply and the Combi.

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### INSTALLATION—GAS CONNECTION

- Install sediment trap (drip leg) in gas supply line.
- Use a pipe sealant resistant to LP gas.

#### **Leak Test Gas Supply**

- Before turning on gas to the Combi or after any service to gas supply:
  - Test all pipe joints for leaks with soap and water solution.
  - All leaks must be corrected before attempting to operate the Combi.

#### **Pressure Testing the Gas Supply Lines**

If any pressure testing is required, the Combi must be isolated from the gas supply system during any pressure testing as follows:

- **HIGH PRESSURE TESTING:**

The Combi and its main manual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 14" Water Column (1/2 psi or 3.45 kPa). Leak test all joints and fittings with a soap and water solution after reconnecting gas supply

- **LOW PRESSURE TESTING:**

The COMBI must be isolated from the gas supply piping system by closing its main manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 14" water column (1/2 psi or 3.45kPa). Leak test all joints and fittings with a soap and water solution after opening the main manual shut-off valve.



## GAS COMBI OVEN INSTALLATION MANUAL

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### PRODUCT REGISTRATION/INSTALLATION CHECKLIST

In order for the oven to qualify for warranty, this checklist must be filled out by an Authorized Service Technician and returned to Giorik within 30 days of the date of installation. The Authorized Service Technician must sign this document, obtain the customer's signature, and send this form via e-mail to: info@giorikus.com. Refer to instruction manual for all specific installation requirements.

Model #: \_\_\_\_\_ Serial #: \_\_\_\_\_  
Machine Voltage & Phase: \_\_\_\_\_ Installed by (Name): \_\_\_\_\_  
Company Name/Address: \_\_\_\_\_ Gas Type: \_\_\_\_\_  
Start-Up by (Name): \_\_\_\_\_ Date of Installation: \_\_\_\_\_  
Date of Start-Up: \_\_\_\_\_ Company Name/Address: \_\_\_\_\_  
Store Name: \_\_\_\_\_ Install Location: \_\_\_\_\_  
Customer Title: \_\_\_\_\_ Customer Name: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

- 1. Check for missing or loose hardware.
- 2. Verify all plastic covering is removed and oven has no dents, scratches, or shipping damage.

**NOTE:** any missing or damaged items on a separate sheet. If shipping damage has occurred, report to shipping carrier immediately.

- 3. Verify the following items are included with the oven:  
\_\_\_ Installation Manual, \_\_\_ Operators Manual, \_\_\_ Oven Drip Tray Hose, \_\_\_ Cooking Probe,  
\_\_\_ Rack Guides.
- 4. Verify oven is level and adequate spacing is provided on all sides per instruction manual.
- 5. Verify door operates properly and latches without excessive force.
- 6. Verify fan/s operates properly (rotate, stop and change direction) without any rubbing or noises.
- 7. Verify oven drain line is connected to an open air gap drain (per local code); and oven drip tray hose is installed properly.
- 8. Verify electrical component connections are secure and machine is properly grounded.
- 9. Verify Supply Voltage and Phase match the machine data plate. Record information:  
Supply Pressure: in H<sub>2</sub>O \_\_\_\_\_ .

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### INSTALLATION CHECKLIST (continued)

- 10. Verify and record average oven temperature @ 350 F in Convection Mode (geometric center of the oven after three complete cycles).
- 11. Verify no steam leaks occur around door during operation.
- 12. Verify cavity vent operates properly in Convection, Combi and Steam modes.
- 13. Verify oven is draining properly.
- 14. Verify steam generator is draining properly when oven is turned off.
- 15. Verify correction operation of all:  
\_\_\_ Control Functions, \_\_\_ Convection Mode, \_\_\_ Steam Mode, \_\_\_ Combi Mode,  
\_\_\_ Cooking Probe.
- 16. Verify cold water supply to the oven is 40-60 PSI (flowing).
- 17. Verify water supply line including water treatment system is connected properly and not leaking (single water connection on oven).
- 18. Record manufacturer's name and type of water treatment system connected to oven.  
\_\_\_\_\_
- 19. Verify an approved water treatment system capable of removing Chlorine and Chloramines is installed in the water supply line to the oven.
- 20. Verify the water concentrations:  
\_\_\_ Hardness, \_\_\_ Iron, \_\_\_ pH, \_\_\_ TDS, \_\_\_ \_\_\_ Chloride, \_\_\_ Chlorine.
- 21. Verify wash system is pumping and spraying during a clean cycle.
- 22. Verify detergent and rinse pump tubes are inserted into approved commercial liquid detergent containers (for automatic clean cycle).
- 23. Show the customer the location of utilities and shut off valves in case of emergency.
- 24. Customer:  
\_\_\_ knows proper oven operation,  
\_\_\_ knows general maintenance, cleaning and deliming procedures,  
\_\_\_ understands importance of stainless steel equipment care and cleaning of the cooking cavity,  
\_\_\_ understands importance of a water treatment system and proper maintenance,  
\_\_\_ has warranty card and understands warranty.

#### Error Messages

In case of an alarm, see the Operation Manual to identify the Error Message actions and solutions needed to resolve the specific error.

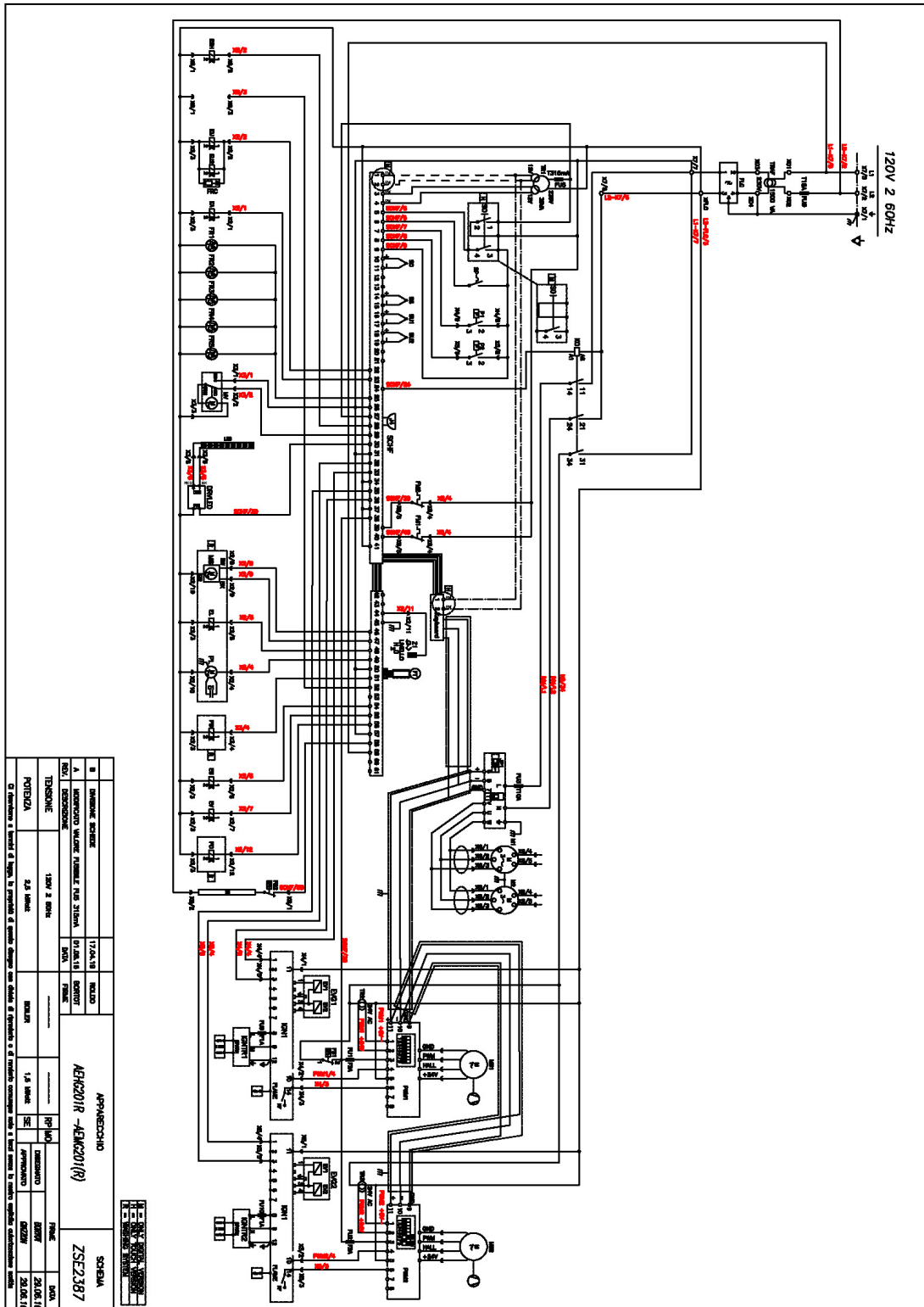




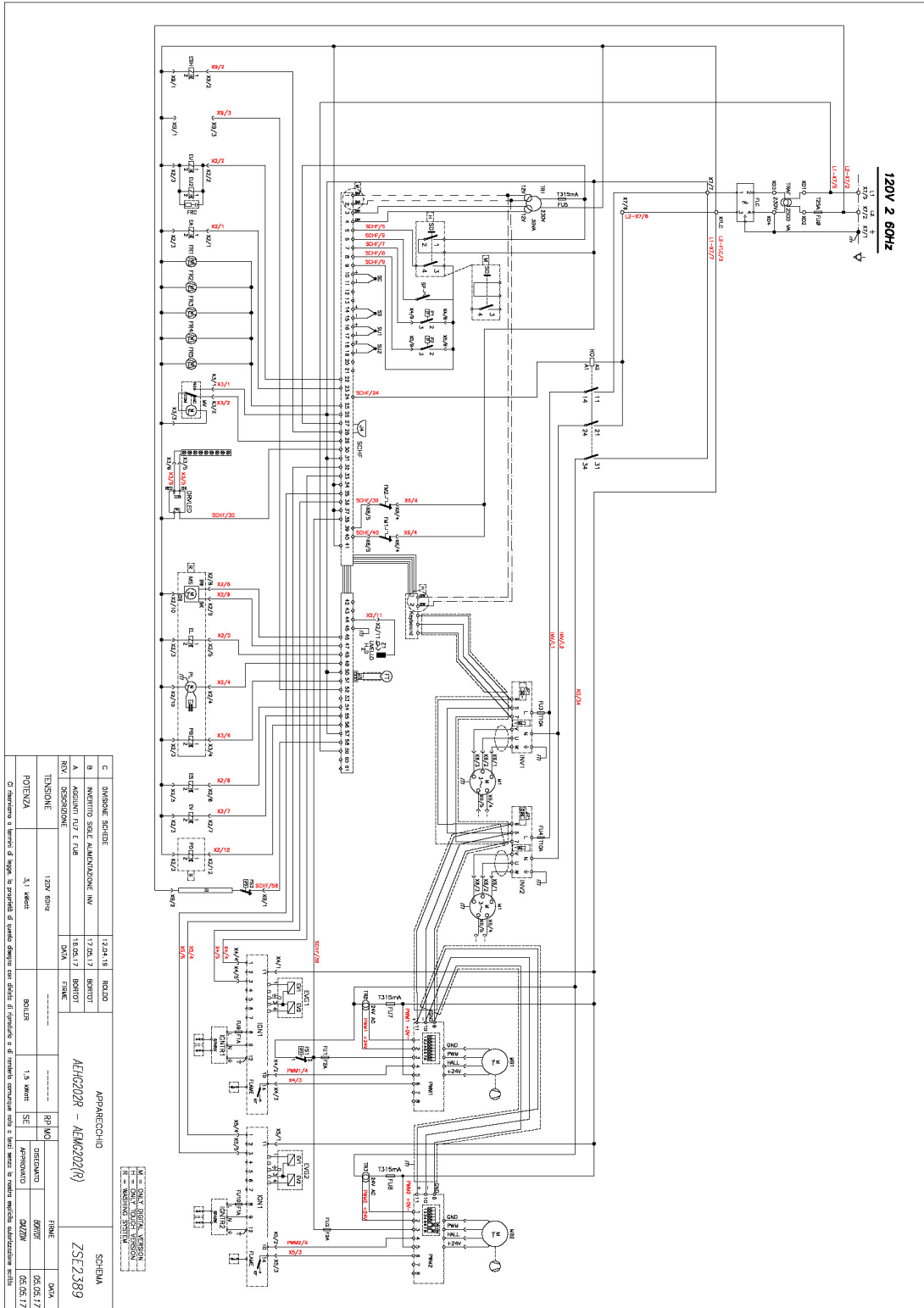




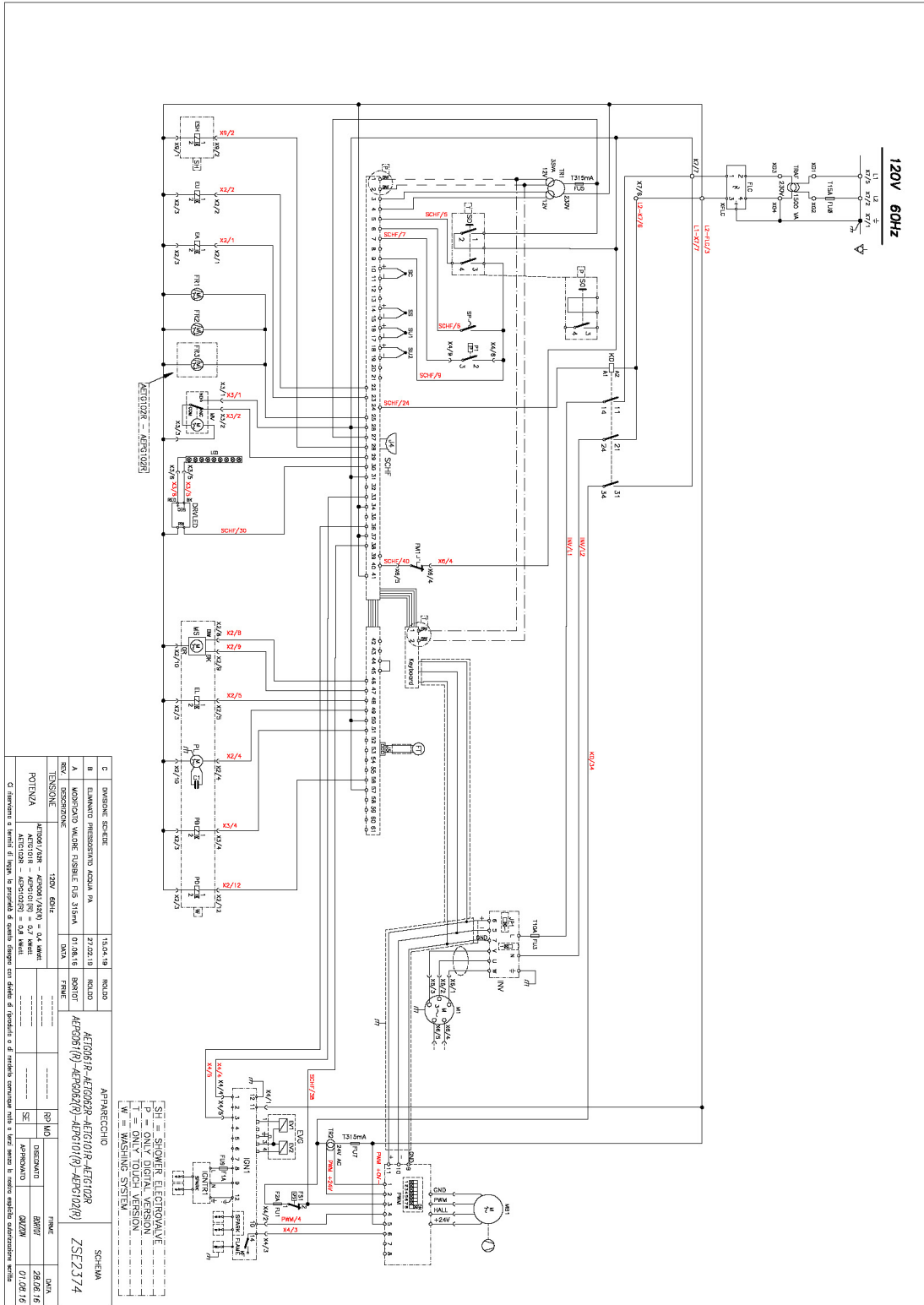
### Wiring Diagram Model: SEHG201W



### Wiring Diagram Model: SEHG202W

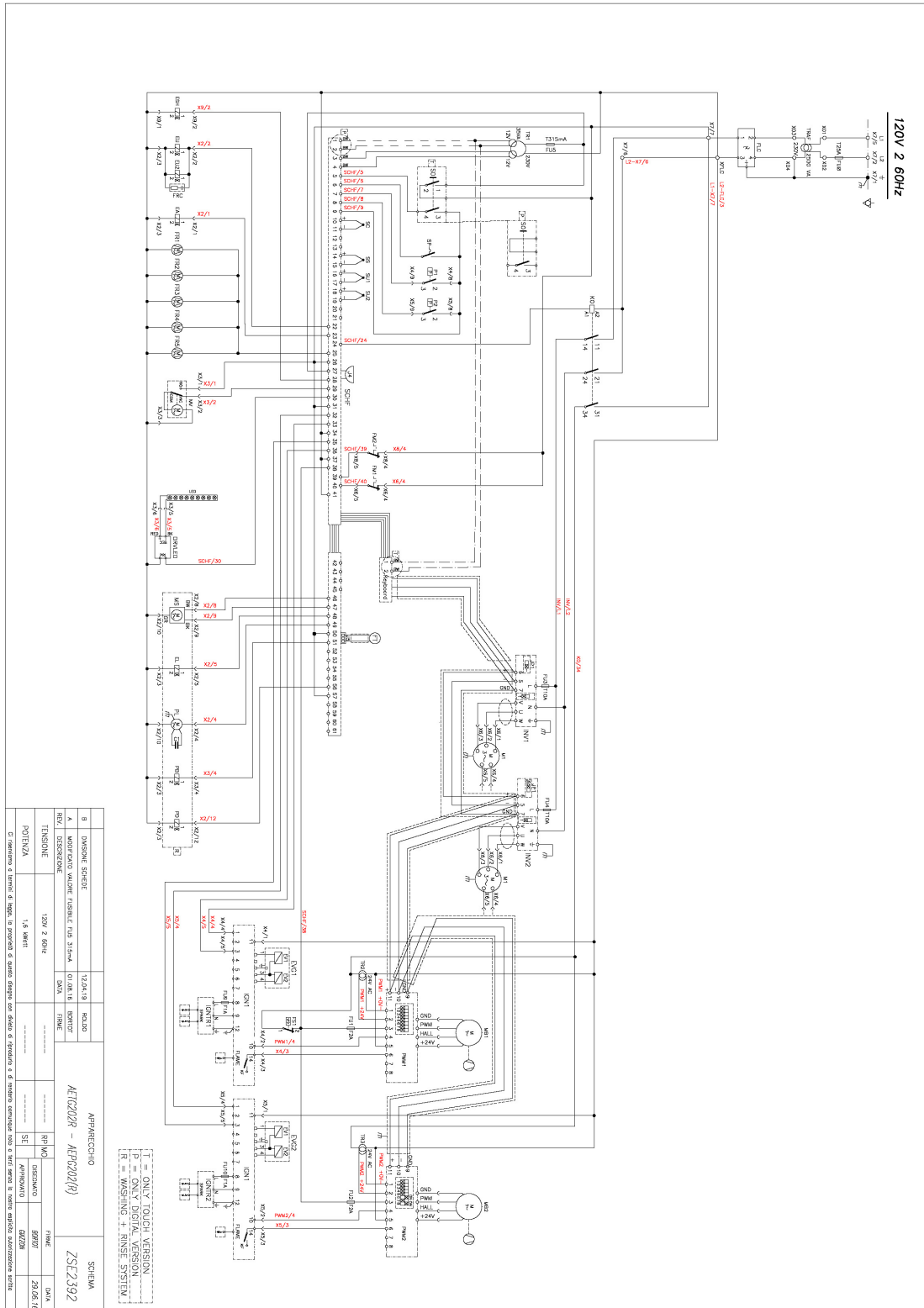


### Wiring Diagram Models: SETG061W, SETG062W, SETG101W, SETG102W





### Wiring Diagram Model: SETG202W





## GAS COMBI OVEN INSTALLATION MANUAL

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### GIORIK LIMITED WARRANTY

#### **2 Year Standard Warranty—adjusted to 2 years**

LIMITED WARRANTIES AND REMEDIES. Seller warrants that at the time of shipment the Products will be free from defects in material and workmanship for a period of no longer than TWO YEAR from the original installation by an authorized representative or no longer than TWO YEAR AND THREE MONTHS from the date of shipment from the factory. Defective conditions caused by abnormal use or misuse lack of or improper maintenance damage by third parties alterations by unauthorized personnel acts of God failure to follow installation and/or operating instructions or any other events beyond the reasonable control of the Seller will NOT be covered under this Warranty. The obligations of the Seller under this warranty shall be limited to repairing or replacing (at the option of the Seller) any part with the exception of lamps, fuses, door gaskets, and glass (which are not covered under this warranty) which is found defective in the reasonable opinion of the Seller. Any part found defective by the Seller will be repaired or replaced without charge F.O.B. authorized Giorik Distributor. Seller and/or its authorized representatives will assume the normal replacement labor expense for the defective part for the period of the warranty as stated above including reasonable (up to 100 mile or 2 hr round trip) travel time where replacement work is performed during standard business hours and not subject to overtime holiday rates and/or any additional fees. IN NO EVENT SHALL THE SELLER BE LIABLE FOR LOSS OF USE LOSS OF REVENUE OR LOSS OF PRODUCT OR PROFIT OR FOR INDIRECT INCIDENTAL SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO FOOD SPOILAGE OR PRODUCT LOSS. THIS WARRANTY DOES NOT COVER GLASS BREAKAGE. THE ABOVE WARRANTY IS EXCLUSIVE AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED ARE EXCLUDED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Any appliance replacement part (with the exception of lamps, fuses, gaskets and glass) which proves to be defective in material or workmanship within ninety (90) days of installation will be replaced without charge F.O.B. authorized Giorik Distributor. The user shall have the responsibility and expense of removing and returning the defective part to the Seller as well as the cost of reinstalling the replacement or repaired part.

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## Notes